

# (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 14 October 2004 (14.10.2004)

**PCT** 

### (10) International Publication Number WO 2004/088490 A3

(51) International Patent Classification7:

G06F 1/16

(21) International Application Number:

PCT/IB2004/050340

- (22) International Filing Date: 26 March 2004 (26.03.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 03100854.3

1 April 2003 (01.04.2003) EP

- (71) Applicant (for all designated States except US): KONIN-KLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): HUITEMA, Hjalmar, E., A. [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). CANTATORE, Eugenio [IT/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). GELINCK, Gerwin, H. [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). VAN RENS, Bas, J., E. [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (74) Agent: RAAP, Adriaan, Y.; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

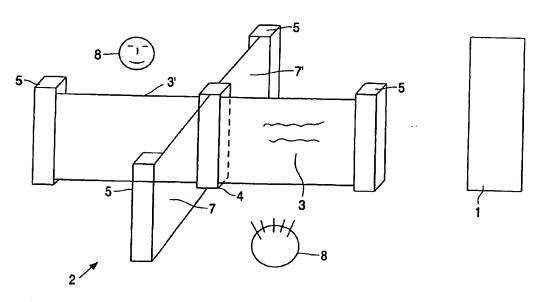
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

### Declaration under Rule 4.17:

as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM,

[Continued on next page]

(54) Title: APPARATUS WITH DISPLAY



(57) Abstract: A (display) device (31,4,5) contains multiple panels (3,7) like e.g. displays. Every display can be used to display its own content and can be rolled out of a sub-housing (5) like e.g. a cartridge separately. In different configurations the same cartridge can be arranged in such a way that the panels are used for a separate functionality or multiple display panels form one big screen.

# 4

#### 

PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

### Published:

- with international search report

- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 6 January 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

onal Application No IB2004/050340

A CLASS	SEICATION OF CUR IF OR		182004/050340
IPC 7	GIFICATION OF SUBJECT MATTER G06F1/16		
According t	to International Patent Classification (IPC) or to both national classi	ification and IPC	
B. FIELDS	SEARCHED		
Minimum d	ocumentation searched (classification system followed by classification sy	ation symbols)	
IPC 7	G06F		
Documenta	tion searched other than minimum documentation to the extent tha	A 4 4 12 12 13	
	The state of the s	t such documents are included in	the fields searched
		•	
Electronic d	data base consulted during the international search (name of data t	base and, where practical, search	terms used)
EPO-In	ternal, WPI Data		Toma datay
	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the re	elevant passages	Delevent to elelin No
		olovani paocagos	Relevant to claim No.
X	GB 2 360 622 A (HUNG CHIA WEN)		1-40
>	26 September 2001 (2001-09-26)		1 10
İ	the whole document		
Х	US 6 222 507 B1 (GOUKO JUNICHI)		1_40
	24 April 2001 (2001-04-24)		1-40
	abstract		1)
	column 1, line 58 - column 2, li column 3, line 34 - line 45	ne 48	
I	column 4, line 15 - line 26		
A			
^	WO 02/47363 A (E INK CORP) 13 June 2002 (2002-06-13)		1-40
1	abstract		
1	page 3, line 27 - page 4 line 1	5	
	page 6, line 3 - line 8		
	page 9, line 7 - line 9		
Furthe	er documents are listed in the continuation of box C.	Detect femily members	
	egories of cited documents:	X Patent family members	are listed in annex.
		*T* later document published after	er the International filing date
considered to be of particular relevance cited to understand the principle or theory understand the			
ming da		"X" document of narticular releva	ance: the claimed invention
	t which may throw doubts on priority claim(s) or cited to establish the publication date of another	involve an inventive step wh	or cannot be considered to the document is taken alone
Citation	or other special reason (as specified)  nt referring to an oral disclosure, use, exhibition or	"Y" document of particular releva	ance; the claimed invention
OUICITIE	cais	ments, such combination be	one or more other such docu- eing obvious to a person skilled
idiei tiid	t published prior to the international filing date but In the priority date claimed	in the art.  *&* document member of the san	
Date of the ac	ctual completion of the international search	Date of mailing of the internal	
20	October 2004		notion obtain topos.
		05/11/2004	
Vame and ma	illing address of the ISA European Pater Office, P.B. 5818 Patentlaan 2	Authorized officer	
	Tel. (+31-70) 340-2040 Ty 31 651 000 pl		
	Fax: (+31-70) 340-3016	Davenport, K	
m DCT/ICAMAC			,

## INTERNATIONAL SEARCH REPORT

Information on patent family members

ional Application No IB2004/050340

Patent family member(s)		Publication
• • • • • • • • • • • • • • • • • • • •		date
2000591 280836		31-05-2000 02-11-2001
1114932	8 A	02-06-1999
134036 024736	0 A2 3 A2	18-06-2002 03-09-2003 13-06-2002 11-07-2002
•	134036 024736	3061002 A 1340360 A2 0247363 A2 2002090980 A1